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FTD-TT-62-338

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FTD-TT-62-191

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FTD-TT-62-336

Sci - Phys

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20 pp.
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Sci - Aero, Phys

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AEC-UCRL-Tr-934(L)

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Sci - Nucl Sci & Tech
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NLL RTS 2464 (loan)

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Sci - Phy
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FTD-TT-62-1695
AEC-Tr-5982
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Trans. of Zhurn[al] Priklad[noi] Mekh[aniki] i Tekh-[nicheskoi] Fiz[iki] (USSR) 1962, no. 1, p. 68ff.

DESCRIPTORS: *Flame propagation, Velocity, Theory, Chain reactions, Hydrogen compounds, Chlorides, Chemical engineering.

(Chemistry--Physical, TT, v. 9, no. 6)

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I. Istratov, A. G.
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pp 76-81. 9667377

FTD-TT-62-1278

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Trans. of Zhurn[al] Prikiad[noi] Mekh[aniki] i Tekh[nicheskoi] Fiz[iki] (USSR) 1962, no. 2, p. 42ff.

DESCRIPTORS: *Heat transfer, *Heat exchangers, Liquid metals, *Mercury, Turbulent flow, Thermal conductivity, Pipes, *Chemical engineering.

(Mechanics, TT, v. 9, no. 6)

63-12339

I. Kokorev, L. S.
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DESCRIPTORS: *Gas flow, Blunt bodies, *Heat transfer, Additives, Gases, Diffusion, Thermal conductivity, *Chemical engineering.

(Mechanics--Aerodynamics, TT, v. 9, no. 6)

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I. Rumynskii, A. N.
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DSTB USE ONLY 230,876

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AEC-Tr-5762

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RUSSIAN, per, Zh. Prikl. Mekhan. i Tekhn. Fiz., No 5, 1962,
pp 150-153.

AEC-UCRL-Tr-996(L)

Sci - NS
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Ilyukhin, V. S.
THE ELECTROMOTIVE FORCE OF A PAIR OF METALS COMPRESSED BY A SHOCK WAVE (Elektrodvizhushchava Sila Pary Metallov Szhacykh Udarnov Volnov). [1963] 7p (figs omitted) 5refs
Available on loan from SLA TT-63-18944

Trans. of [Zhurnal] Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki (USSR) 1962, no. 5, p. 175-176.

DESCRIPTORS: *Thermoelectricity, Metals, Thermocouples, *Nickel, *Copper, *Shock waves,

(Physics--Electricity, TT, v. 11, no. 1)

TT-63-18944

I. Ilyukhin, V. S.

Office of Technical Services

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High-Velocity Cumulative Jets by N. P. Novikov,
16 pp.

RUSSIAN, per, Zhur Prik Mekh i Tekh, No 6,
1962, pp 22-28. 9687050

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345, 440

Sci - Phys
Oct 63

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Vetlutskii, V. N. and Onufriev, A. T.
RADIATION COOLING OF A GAS FLOWING IN A FLAT CHANNEL. Apr 63, 6p. 13 refs.
Order from ICE in v. 3, no. 2, $15.00/year

Trans. of Zh[urnal] Priklad[noi] Mekh[aniki] i Tekh[nicheskoi] Fiz[iki] (USSR) 1962, no. 6, p. 29ff. 3

DESCRIPTORS: Chemical engineering, *Cooling, *Gas flow, Gases, Temperature, Emissivity, Neutron transport theory, Couette flow, Numerical analysis.

(Physics--Thermodynamics, TT, v. 10, no. 3)

63-17514

1. Title: Radiation cooling
I. Vetlutskii, V. N.
II. Onufriev, A. T.
III. International Chemical Engineering, New York

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9224410

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Analogy Between Cylindrical Explosion and Hypersonic Gas Flow Past Bodies, by V. P. Korobeynikov, 10 pp. RUSSIAN, per, Zhur Prikl Mekh i Tekh Fiz, No 6, 1962, pp 45-49. 96978710 FTD-TT-65-981

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On Method of Small Perturbations in Problems of Flow Around Slender Blunt Bodies by a Hypersonic Flow of Gas, by V. V. Sychev, 19 pp.
POST EDITED

RUSSIAN, per, Zhur Prikl Mekh i Tekh Fiziki, No 6, 1962, pp 50-59. 9694817

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Cavitation on Surface Irregularities of Triangular Profile, by K. K. Shal'nev.
31 pp.
RUSSIAN, per. Zhurnal Prikladnoy Mekhaniki i Tekhnicheskoy Fiziki, No 6, 1962, pp 68-80. 9700063
FTD-TT-63-1606

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Method of Considering Relaxation in the Problem of Directing a Flow Around A Cone by V. N. Artikpov and K. S. Khroshko, 8 pp.

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Sci - Aero

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Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoy Fiziki, No 1, 1963, 160 pp.
FTD-MT-64-84

Aug 67

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470002-4

FSTC

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17 Feb 67

Some properties of High-Velocity Cumulative Jets
By: N. P. Novikov
From: Zhurnal Prikladnoy Mekhaniki i Tekhnicheskoy Fiziki
No. 1, 1963: 3-13
( 11 pp )

Question - est for uds:

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Kazantsev, A. P.
THE STRUCTURE OF A SHOCK WAVE IN A RARE-FIED NON-ISOTHERMAL PLASMA. July 63, 4p.
9 refs.
Order from ICE in v. 3, no. 3, $15.00/year

Trans. of Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki (USSR) 1963, no. 1, p. 32-37.

DESCRIPTORS: Chemical engineering, *Plasma physics, *Shock waves, Superaerodynamics, Hydrodynamics.

(Mechanics, TT, v. 10, no. 7)

63-17888

I. Kazantsev, A. P.
II. International Chemical Engineering, New York

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Concerning The Stability of the Burning Regime of a Powder in a Semiclosed Space by Ya. B. Zel'dovich, 23 pp.

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Break-Up of Drops and the Field Jet of an Air Shock Wave, by Burakov.
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*Navy/AFL J475

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On the Exact Solutions of Certain Problems of Magneto-Hydrodynamics, by G. I. Nazarov, 13 pp. RUSSIAN, per, PMTF Z. Prikl. Meh. i Tehn. Fiz., 1963, Vol. No. 2, pp 63-72
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Journal of Applied Mechanics and Technical Physics (Collection of Articles). 319 pp. RUSSIAN, bi. Zhurnal Prikladnoy Mekhaniki i Tekhnicheskoy Fiziki, No 2, 1965, pp 1-176.
P100022566-V
FTD-TT-64-97
CFSTI TT-64-19355

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Certain Problems of the Hydrodynamics of Relaxing Media, by I. P. Stakhanov, Ye. V. Stypochenko, 35 pp.
RUSSIAN, per, KZhur Prikl Mekh i Tekh Fiziki, No 2, 1963, pp 3-20. 9692318
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Excitation of Strong Collisionless Shock Waves in a Plasma, by R.Kh. Kurtmullayev, V.K. Malinovskiy. RUSSIAN, per. Zh. Prikl. Mekh. Tech. Fiz, No 2, 1963, pp 79-83. 9232875
AEC NP-tr-1378

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On Rupture Following Creep,
by Yu. N. Rabotnov.
RUSSIAN, per, Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki, No 2, 1963,
pp 115-123.
NLL RTS 2899

NLL Ref. P222.0P

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Use of the Kerr Effect for Studying a Stressed State of Thin-Walled Structures, by V. M. Nikitin, 9p.
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CFSTI AD-630,650

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The Breakup of Drops and a Fluid Stream by an Air Shock Wave, by A.A. Buzukov, 11 pp. RUSSIAN, per, Zhur Prikl Mekh i Tekh Fiziki, No 2, 1963, pp 154-158. 9692318
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The Structure of a Flame Front, by A. S. Pleshanov, 8 pp.
RUSSIAN, per, Zhur Prikl Mekh i Tekh Fiziki, No 2, 1963, pp 169-172. 9692318
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Zhurnal Prik Mekh i Tekhn Fiziki, No 3, 1963,
pp 1-168.

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pp 84-90 - AEC-UCRL-tr-1158(L) 9226652 16pp
pp 155-159 - NLL RB 3347
pp 36-40 - FTD-TT-63-1033 9690493 11pp
pp 5-10 - AEC/LA-TR-71-42

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Approximate Determination of Gas Parameters Behind a Shock-Wave Front According to the Law of Shock Propagation, by V. V. Adushkin, I. V. Nemchinov.
RUSSIAN, per, Zhur Prik Mekh i Tekh Fiz, No 4, 1963, pp 58-67.
*Navy/APL J374

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The Collision of Two Plates With Great Speed,
by E. I. Andriankin, 10 pp. POST EDITED

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Boundary Conditions on Ionized Gas-Solid Contact Surface, by G. A. Lyubimov, 13 pp.
RUSSIAN, per, Prik Mekh i Tekh Fiziki, No 4, 1963, pp 78-82. 9692320
FTD-TT-64-128

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Boundary Conditions at the Surface of Contact Between an Ionized Gas and a Solid, by G. A. Lyubimov, 8 pp. RUSSIAN, per, Zhur Prik Mekh i Tekh Fiz, No 4, 1963, pp 78-82. 9226485
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An Appraisal of the Role of Radiation When Calculating Heat Exchange in a Turbulent Boundary ..., by S. S. Kutateladze, A. I. Leont'yev, 8 pp. POST EDITED

RUSSIAN, per, Zhur Prik Mekh i Tekh Fiziki, No 4, 1963, pp 88-93. 9693195

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Transition of Normal Burning of Porous Explosives to Detonation Under Conditions of Slowly Increasing Pressure, by V. K. Bobolev, L. F. Chekirda, et al, 7 pp.
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On the Displacement of Chemical Equilibrium With the Violation of the Maxwell Distribution, by
S. V. Stepochenko, 5 pp.

RUSSIAN, per, Prikl Mekh i Tekh Fiz, No 4, 1963, pp 103-105.

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Stupochenko, E. V.
ON THE DISPLACEMENT OF CHEMICAL EQUILIBRIUM WITH THE VIOLATION OF THE MAXWELL DISTRIBUTION. [1963] 5p
Order from OTS, $1.A, or ETC $1.10 TT-63-20677

Trans. of [Zhurnal] Prikl[adnoi] Mekh[aniki] i Tekh[nicheskoi] Fiz[iki] (USSR) 1963, no. 4, p. 103-105.

DESCRIPTORS: *Thermochemistry, Gases, Dissociation, *Chemical equilibrium, Theory, Quantum statistics, *Partial differential equations, Atomic orbitals.

(Physics--Molecular, TT, v. 11, no. 8)

TT-63-20677

Stupochenko, E. V.

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Effect of Coulomb Interaction of Electrons With Ions on the Optimum Composition of a Gaseous Mixture, by E. P. Zimin, V. A. Popov, 7 pp. RUSSIAN, per, Zhur Prik Mekh i Tekh Fiz, No 4, 1963, pp 112-114. 9692704
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P100313267-V
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Nov 67

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pp 977-98 - ATS - 85R 78R
3 Jun 65
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The Conditions of Stability of Certain Kinds of Flow of Gas-Liquid Mixtures in Vertical Pipes, by Yu. L. Sorokin.
RUSSIAN, per, Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki, No 6, 1965, pp 160-165.
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Sept. 67 340,384

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Nov 65

pp. 99-105 NAVY/ONT No 2043
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NW RTS 63972 21 pp

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Creep of an Aluminium Alloy Under Variable Loads,
by V. S. Namestnkov, 13 p.
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NLL RTS-~~2972~~2972

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Full Translation done

Jun 65

pp 124 - 126.

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pp 123-126 AEC ANL tr 536 P911016668

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Jun 65

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138-140 ACSI J-0540 ~~pp 8-29~~

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DIA LN 1025-70

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Kinetic Description of a Rarefied Fully Ionized Plasma, by A. M. Dyukalov,
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F100129866
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Inhomogeneous Turbulent Boundary Layer of a Gas on a Permeable Plate, by S.S. Kutateladze, A.I. Leont'ev.

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